PRESENTATION OF CLAIMS

No claim is amended in this response; for convenience, all pending claims are set forth as follows:

1. (Previously Presented) A method for supporting a platform independent object format for a run-time environment, comprising the computer-implemented steps of:

accessing a definition of an object in terms of a composition of one or more primitive types; accessing a platform-specific description of size and alignment of the one or more primitive types; and

generating a layout for the object in a high-order language based on the definition of the object and the size and alignment of the one or more primitive types.

- 2. (Original) The method according to claim 1, further comprising the step of generating instructions for an accessor operation to access a slot in the object holding a value for one of the one or more primitive types.
- 3. (Original) The method according to claim 1, further comprising the step of generating instructions for a get operation to fetch a value for one of the one or more primitive types from a slot in the object.
- 4. (Original) The method according to claim 1, further comprising the step of generating instructions for a set operation to store a value for one of the one or more primitive types from a slot in the object.

5. (Previously Presented) The method according to claim 1, wherein the one or more primitive types includes one or more of the following types: integer, floating point, and reference.

6. (Original) The method according to claim 5, wherein the primitive reference type is one of a native machine pointer type and a numeric reference type.

7. (Canceled)

8. (Original) A method for supporting an object format for a plurality of incompatible platforms for a run-time environment, comprising the computer-implemented steps of:

accessing a definition of an object as a plurality of slots containing a primitive type;

- accessing a plurality of platform-specific descriptions of layout parameters of the one or more primitive types, said platform-specific descriptions corresponding respectively to the incompatible platforms; and
- generating a plurality of layouts, corresponding respectively to the incompatible platforms, for the object in a high-order language based on the definition of the object and the platform-specific descriptions.
- 9. (Original) The method according to claim 8, where the slots are located in the layouts for the incompatible platforms, when compiled by a corresponding platform-specific compiler, at same offsets.
- 10. (Previously Presented) A computer-readable medium bearing instructions for supporting a platform independent object format for a run-time environment, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of:

accessing a definition of an object in terms of a composition of one or more primitive types; accessing a platform-specific description of size and alignment of the one or more primitive types; and

generating a layout for the object in a high-order language based on the definition of the object and the size and alignment of the one or more primitive types.

- 11. (Original) The computer-readable medium according to claim 10, wherein said instructions are further arranged for performing the step of generating instructions for an accessor operation to access a slot in the object holding a value for one of the one or more primitive types.
- 12. (Original) The computer-readable medium according to claim 10, wherein said instructions are further arranged for performing the step of generating instructions for a get operation to fetch a value for one of the one or more primitive types from a slot in the object.
- 13. (Original) The computer-readable medium according to claim 10, wherein said instructions are further arranged for performing the step of generating instructions for a set operation to store a value for one of the one or more primitive types from a slot in the object.
- 14. (Previously Presented) The computer-readable medium according to claim 10, wherein the one or more primitive types includes one or more of the following types: integer, floating point, and reference.
- 15. (Original) The computer-readable medium according to claim 14, wherein the primitive reference type is one of a native machine pointer type and a numeric reference type.

16. (Canceled)

17. (Original) A computer-readable medium bearing instructions for supporting an object format for a plurality of incompatible platforms for a run-time environment, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of: accessing a definition of an object as a plurality of slots containing a primitive type; accessing a plurality of platform-specific descriptions of layout parameters of the one or more primitive types, said platform-specific descriptions corresponding respectively to the incompatible platforms; and

generating a plurality of layouts, corresponding respectively to the incompatible platforms, for the object in a high-order language based on the definition of the object and the platform-specific descriptions.

- 18. (Original) The computer-readable medium according to claim 17, wherein the slots are located in the layouts for the incompatible platforms, when compiled by a corresponding platform-specific compiler, at same offsets.
 - 19. (Previously Presented) The method according to claim 9, wherein:

one of the platform-specific descriptions corresponding to one of the incompatible platforms specifies that the primitive type has a first size;

another of the platform-specific descriptions corresponding to another of the incompatible platforms specifies that the primitive type has a second size greater than the first size; and said generating the layouts includes:

generating one of the layouts corresponding to said one of the incompatible platforms;

generating another of the layouts corresponding to said another of the incompatible platforms; and

generating a padding element in said one of the layouts.

20. (Previously Presented) The computer-readable medium according to claim 18, wherein: one of the platform-specific descriptions corresponding to one of the incompatible platforms

specifies that the primitive type has a first size; and

another of the platform-specific descriptions corresponding to another of the incompatible platforms specifies that the primitive type has a second size greater than the first size; and said generating the layouts includes:

generating one of the layouts corresponding to said one of the incompatible platforms; generating another of the layouts corresponding to said another of the incompatible platforms; and

generating a padding element in said one of the layouts.

21. (Previously Presented) A method for supporting an object format for a run-time environment, comprising the computer-implemented steps of:

accessing a definition of an object as including at least one slot containing a primitive type; accessing a first layout description for the primitive type corresponding to a first platform; generating a first layout for the slot of the object in a high-order language based on the definition of the object and the first layout description; and

accessing a second layout description for the primitive type corresponding to a second platform; and

generating a second layout for the slot of the object in a high-order language based on the definition of the object and the first layout description;

- wherein the first layout for the slot and the second layout for the slot have a same size when compiled by a first compiler of the high-order language on the first platform and a second compiler of the high-order language on the second platform; and
- the first layout for the slot of the object in the high-order language includes a padding element and the second layout for the slot of the object in the high-order language does not include the padding element.
- 22. (Previously Presented) The method according to claim 21, wherein:
- the first layout description for the primitive type specifies a first size for the primitive type; and
- the second layout description for the primitive specifies a second size for the primitive type greater than the first size.
- 23. (Previously Presented) The method according to claim 21, wherein:
- the first layout description for the primitive type specifies a first alignment restriction for the primitive type; and
- the second layout description for the primitive specifies a second alignment restriction for the primitive type stricter than the first alignment restriction.